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# NOTICE OF ALLOWANCE AND FEE(S) DUE

47390

7590

09/09/2010

THOMAS, KAYDEN, HORSTEMEYER & RISLEY LLP 600 GALLERIA PARKWAY, 15TH FLOOR ATLANTA, GA 30339 EXAMINER
IWARERE, OLUSEYE
ART UNIT PAPER NUMBER

3687

DATE MAILED: 09/09/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/646,141	08/22/2003	Chi-Jung Huang	252011-1200	8945

TITLE OF INVENTION: METHOD AND SYSTEM OF MATCHING CUSTOMER DEMAND WITH PRODUCTION CAPACITY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/09/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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appropriate. All further o	correspondence including d below or directed oth	ig the Patent, advance of	rders and notification	of maintenance fees v	will be mailed to the current; and/or (b) indicating a sep	correspondence address as arate "FEE ADDRESS" for	
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THOMAS, KA	PARKWAY, 15TH	EMEYER & RISLI	EYLLP	Cer L bereby certify that th	rtificate of Mailing or Trans his Fee(s) Transmittal is bein with sufficient postage for fir I Stop ISSUE FEE address TO (571) 273-2885, on the c	smission	
						(Depositor's name)	
						(Signature)	
						(Date)	
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EXAMI	NER	ART UNIT	CLASS-SUBCLASS				
IWARERE, O		3687	705-028000				
"Fee Address" indic PTO/SB/47; Rev 03-02 Number is required.  3. ASSIGNEE NAME AN	ess an assignee is identi n in 37 CFR 3.11. Comp	' Indication form ed. Use of a Customer A TO BE PRINTED ON	or agents OR, alter (2) the name of a s registered attorney 2 registered patent listed, no name wil THE PATENT (print o data will appear on tl T a substitute for filing	ingle firm (having as a or agent) and the nam attorneys or agents. If I be printed.	a member a 2a nes of up to no name is 3a nee is identified below, the definition of the desired below, the desired below is desired below.	locument has been filed for	
Please check the appropria	ate assignee category or	categories (will not be pr	rinted on the patent):	☐ Individual ☐ C	orporation or other private gr	oup entity 🚨 Government	
4a. The following fee(s) a  ☐ Issue Fee ☐ Publication Fee (No ☐ Advance Order - #	o small entity discount p		4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
	SMALL ENTITY statu	is. See 37 CFR 1.27.		-	LL ENTITY status. See 37 C		
NOTE: The Issue Fee and interest as shown by the re	l Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other the Office.	an the applicant; a reg	istered attorney or agent; or the	he assignee or other party in	
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This collection of informa an application. Confidenti submitting the completed his form and/or suggestic	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this but include 22312 1450 DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th	on is required to obtain 1.14. This collection in depending upon the interpretation of COMPLETED FORM	or retain a benefit by s estimated to take 12 ndividual case. Any cofficer, U.S. Patent and	the public which is to file (an minutes to complete, includin mments on the amount of ti Trademark Office, U.S. Dep	d by the USPTO to process) ng gathering, preparing, and me you require to complete partment of Commerce, P.O.	

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10/646,141	08/22/2003	Chi-Jung Huang	252011-1200	8945	
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THOMAS, KAY	DEN, HORSTEME	IWARERE, OLUSEYE			
	ARKWAY, 15TH FLO	ART UNIT	PAPER NUMBER		
ATLANTA, GA 30	0339		3687		
			DATE MAILED: 09/09/2010		

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1125 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1125 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)				
	Application No.	Apprount(5)				
Notice of Allowability	10/646,141	HUANG ET AL.				
Notice of Anowability	Examiner	Art Unit				
	OLUSEYE IWARERE	3687				
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communicati IGHTS. This application is subjec	application. If not included on will be mailed in due course. <b>THIS</b>				
1. This communication is responsive to Appeal Brief (5/25/20	<u>10)</u> .					
2. ☑ The allowed claim(s) is/are <u>1-33</u> .						
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> </ul>	been received.					
	• • •	· · · · · · · · · · · · · · · · · · ·				
3. Copies of the certified copies of the priority doc	cuments have been received in th	is national stage application from the				
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EXAMINE	R'S AMENDMENT or NOTICE OF				
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.					
	(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached					
1) hereto or 2) to Paper No./Mail Date	•	,				
(b) ☐ including changes required by the attached Examiner's  Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.						
each sheet. Replacement sheet(s) should be labeled as such in the	he header according to 37 CFR 1.12	11(d).				
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT</li> </ol>						
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informa	l Patent Application				
Notice of Neterences Great (110-032)     Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summa	• •				
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail D 7. ⊠ Examiner's Amen	Date				
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. <b>⊠</b> Examiner's State	ment of Reasons for Allowance				
•	9. ⊠ Other <u>email conv</u>	ersation.				
/OLUSEYE IWARERE/						
Examiner, Art Unit 3687						

#### **AEXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for the Examiner's Amendment was given in an email with Dan McClure [Dan.McClure@tkhr.com] on June 4, 2010.

## In the Claims

1. (currently amended) A computer-implemented method of matching customer demand with a manufacturer supply of products from plurality of factory facilities, comprising using a computer to perform the steps of:

inputting demand data, using the computer, for a demand of at least one product requested by at least one customer and supply data corresponding to a production capacity of the factory facilities;

performing a first matching operation, using the computer, to match the demand data with the supply data to obtain a first demand-supply matching result;

collecting rematched demand data, using the computer, corresponding to a portion of the demand unsatisfied by the first matching operation from the demand data

and collecting rematched supply data corresponding to a portion of the production capacity unused in the first matching operation from the supply data;

classifying the rematched demand data, using the computer, into a plurality of classified demand data records according to at least one attribute of the at least one product and the at least one customer corresponding thereto, the classified demand data having different priorities wherein new customers and manufacturing processes are highest priority, existing customers and new manufacturing processes are next priority, and existing customers and manufacturing processes are lowest priority; and

performing a second matching operation, using the computer, to match the classified demand data with the rematched supply data based on the priorities of the classified demand data to obtain a second demand-supply matching result.

# Allowable Subject Matter

1. Claims 1 - 33 are allowed.

### REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance: The most remarkable prior art of record is Kaneko et al. (US Patent Publication No. 2001/0020230) and Ham (US Patent No. 7,370,005).

Neither Kaneko or Ham discloses, "classifying the rematched demand data into a plurality of classified demand data records according to at least one attribute of the at

Art Unit: 3687

least one product and the at least one customer corresponding thereto, the classified demand data having different priorities wherein new customers and manufacturing processes are highest priority, existing customers and new manufacturing processes are next priority, and existing customers and manufacturing processes are lowest priority."

None of the prior art of record remedies the deficiencies found in Kaneko and Ham. Furthermore, neither the prior art, the nature of the problem, nor knowledge of a person having ordinary skill in the art, provide any reasonable rationale to combine prior art teachings.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Goodale, John C *"A MARKET UTILITY-BASED MODEL FOR CAPACITY SCHEDULING IN MASS SERVICES"* Production & Operations Management, Summer 2003 v.12 n.2, pp: 165-185

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to OLUSEYE IWARERE whose telephone number is (571)270-5112. The examiner can normally be reached on M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Gart can be reached on (571)272-3955. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/O.I./

Patent Examiner, AU 3687

/Matthew S Gart/

Supervisory Patent Examiner, Art Unit 3687